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USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
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INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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NEWS INTER	General Internet Information
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FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006

=> file medline, agricola, caba, caplus, biosis, biotechno
COST IN U.S. DOLLARS SINCE FILE TOTAL
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FILE 'MEDLINE' ENTERED AT 14:45:48 ON 30 JAN 2006

FILE 'AGRICOLA' ENTERED AT 14:45:48 ON 30 JAN 2006

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FILE 'BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006
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=> s (da costa e silva, o? or da costa e silva o?)/au
L1 52 (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU

=> s (bohnert, h? or bohnert h?)/au
L2 1107 (BOHNERT, H? OR BOHNERT H?)/AU

=> s (van thielen, n? or van thielen n?)/au
L3 21 (VAN THIELEN, N? OR VAN THIELEN N?)/AU

=> s (chen, r? or chen r?)/au
L4 13011 (CHEN, R? OR CHEN R?)/AU

=> s (ishitani, m? or ishitani m?)/au
L5 369 (ISHITANI, M? OR ISHITANI M?)/AU

=> s l1 and l2 and l3 and l4 and l5
L6 4 L1 AND L2 AND L3 AND L4 AND L5

=> duplicate remove 16
DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L6
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> d 17 1-4 ti

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Phosphatase stress-related proteins and methods of use in plants.

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Signal transduction stress-related proteins and methods of use in plants.

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Transgenic plants expressing protein phosphatase stress-related
polypeptides for stress resistance

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Protein and cDNA sequence of *Physcomitrella patens* signal transduction
stress-related proteins and uses in plants for increased tolerance to
environmental stresses

=> d 17 1,3 bib

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 2005:1870 BIOSIS
DN PREV200500011655
TI Phosphatase stress-related proteins and methods of use in plants.
AU da Costa e Silva, Oswaldo [Inventor, Reprint Author];
Bohnert, Hans J. [Inventor]; van Thielen, Nucha
[Inventor]; Chen, Ruoying [Inventor]; Ishitani, Manabu
[Inventor]
CS ASSIGNEE: BASF Plant Science GmbH, Ludwigshafen, Germany
PI US 6818805 20041116
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Nov 16 2004) Vol. 1288, No. 3. <http://www.uspto.gov/web/menu/patdata.html>
. e-file.

DT ISSN: 0098-1133 (ISSN print).
 LA Patent
 LA English
 ED Entered STN: 16 Dec 2004
 Last Updated on STN: 16 Dec 2004

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:202796 CAPLUS
 DN 138:249898
 TI Transgenic plants expressing protein phosphatase stress-related polypeptides for stress resistance
 IN Bohnert, Hans J.; Chen, Ruoying; Ishitani, Manabu; Van ThieLEN, Nocha; Da Costa e Silva, Oswaldo
 PA BASF Plant Science GmbH, Germany
 SO PCT Int. Appl., 107 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003020914	A2	20030313	WO 2002-US28445	20020905
	WO 2003020914	A3	20030821		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	CA 2459961	AA	20030313	CA 2002-2459961	20020905
	US 2003150028	A1	20030807	US 2002-236699	20020905
	EP 1423508	A2	20040602	EP 2002-797860	20020905
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK		
PRAI	US 2001-317305P	P	20010905		
	WO 2002-US28445	W	20020905		

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU
 L2 1107 S (BOHNERT, H? OR Bohnert H?)/AU
 L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU
 L4 13011 S (CHEN, R? OR CHEN R?)/AU
 L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
 L6 4 S L1 AND L2 AND L3 AND L4 AND L5
 L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> s 11 or 12 or 13 or 14 or 15

L8 14488 L1 OR L2 OR L3 OR L4 OR L5

=> s 18 not 16

L9 14484 L8 NOT L6

=> s physcomitrella(s)2a(s)phosphatase

L10 0 PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE

=> s physcomitrella(s)phosphatase

L11 13 PHYSCOMITRELLA(S) PHOSPHATASE

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=> s 19 and l11
L12          0 L9 AND L11

=> s l11 not 16
L13          12 L11 NOT L6

=> duplicate remove l13
DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L13
L14          5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)

=> d 114 1-5 ti

L14  ANSWER 1 OF 5      MEDLINE on STN          DUPLICATE 1
TI  Characterization of a novel plant PP2C-like protein Ser/Thr phosphatase as
a calmodulin-binding protein.

L14  ANSWER 2 OF 5      CABA COPYRIGHT 2006 CABI on STN      DUPLICATE 2
TI  Sucrose-phosphatase gene families in plants.

L14  ANSWER 3 OF 5      CAPLUS COPYRIGHT 2006 ACS on STN
TI  Cloning, characterization and biotechnological use of Physcomitrella
patens proteins and enzymes involved in the synthesis of amino acids,
vitamins, cofactors, nucleotides and nucleosides

L14  ANSWER 4 OF 5      CAPLUS COPYRIGHT 2006 ACS on STN
TI  Moss genes from Physcomitrella patens encoding proteins involved in the
synthesis of carbohydrates

L14  ANSWER 5 OF 5      CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
TI  Physcomitrella patens gene/cDNA fragments related to genes encoding
protein Ser/Thr phosphatases

=> d 114 1-5 bib

L14  ANSWER 1 OF 5      MEDLINE on STN          DUPLICATE 1
AN  2003440731      MEDLINE
DN  PubMed ID: 12860996
TI  Characterization of a novel plant PP2C-like protein Ser/Thr phosphatase as
a calmodulin-binding protein.
AU  Takezawa Daisuke
CS  Institute of Low Temperature Science, Hokkaido University, Sapporo
060-0819, Japan.. daisuket@pop.lowtem.hokudai.ac.jp
SO  Journal of biological chemistry, (2003 Sep 26) 278 (39) 38076-83.
Electronic Publication: 2003-07-14.
Journal code: 2985121R. ISSN: 0021-9258.
CY  United States
DT  Journal; Article; (JOURNAL ARTICLE)
LA  English
FS  Priority Journals
OS  GENBANK-AY229980
EM  200311
ED  Entered STN: 20030923
     Last Updated on STN: 20031218
     Entered Medline: 20031117

L14  ANSWER 2 OF 5      CABA COPYRIGHT 2006 CABI on STN      DUPLICATE 2
AN  2003:69587      CABA
DN  20033034654
TI  Sucrose-phosphatase gene families in plants
AU  Lunn, J. E.
CS  CSIRO Plant Industry, GPO Box 1600, Canberra, ACT 2601, Australia.
lunn@mpimp-golm.mpg.de
SO  Gene, (2003) Vol. 303, No. 1/2, pp. 187-196. 21 ref.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0378-1119
CY  Netherlands Antilles
```

DT Journal
LA English
ED Entered STN: 20030502
Last Updated on STN: 20030502

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:755097 CAPLUS

DN 137:275028

TI Cloning, characterization and biotechnological use of *Physcomitrella patens* proteins and enzymes involved in the synthesis of amino acids, vitamins, cofactors, nucleotides and nucleosides

IN Lerchl, Jens; Renz, Andreas; Ehrhardt, Thomas; Reindl, Andreas; Cirpus, Petra; Bischoff, Friedrich; Frank, Markus; Freund, Annette; Duwenig, Elke; Schmidt, Ralf-Michael; Reski, Ralf

PA Germany

SO U.S. Pat. Appl. Publ., 107 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002142422	A1	20021003	US 2000-734017	20001212
PRAI	US 1999-171100P	P	19991216		

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:453263 CAPLUS

DN 135:72159

TI Moss genes from *Physcomitrella patens* encoding proteins involved in the synthesis of carbohydrates

IN Lerchl, Jens; Renz, Andreas; Ehrhardt, Thomas; Reindl, Andreas; Cirpus, Petra; Bischoff, Friedrich; Frank, Markus; Freund, Annette; Duwenig, Elke; Schmidt, Ralf-Michael; Reski, Ralf

PA Basf Plant Science G.m.b.H., Germany

SO PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044476	A2	20010621	WO 2000-EP12697	20001214
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002064816	A1	20020530	US 2000-734569	20001213
PRAI	US 1999-171101P	P	19991216		

L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3

AN 1999:509405 CAPLUS

DN 131:182360

TI *Physcomitrella patens* gene/cDNA fragments related to genes encoding protein Ser/Thr phosphatases

AU Andreeva, Alexandra V.; Kutuzov, Mikhail A.

CS Research School Biological Molecular Sciences, Oxford Brookes Univ., Oxford, OX3 0BP, UK

SO Journal of Plant Physiology (1999), 155(2), 153-158

CODEN: JPPHEY; ISSN: 0176-1617

PB Urban & Fischer Verlag

DT Journal

LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU
L4 13011 S (CHEN, R? OR CHEN R?)/AU
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
L6 4 S L1 AND L2 AND L3 AND L4 AND L5
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5
L9 14484 S L8 NOT L6
L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE
L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE
L12 0 S L9 AND L11
L13 12 S L11 NOT L6
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)

=> s 2a (w) phosphatase

L15 248 2A(W) PHOSPHATASE

=> s 2a(s)alpha(s)catalytic(s)phosphatase

L16 272 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE

=> s l16 and (plant or plants)

L17 16 L16 AND (PLANT OR PLANTS)

=> duplicate remove l17

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L17

L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)

=> s l18 not 18

L19 8 L18 NOT L8

=> d l19 1-8 ti

L19 ANSWER 1 OF 8 MEDLINE on STN

TI Cantharidin-binding protein: identification as protein phosphatase 2A.

L19 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2006) on STN

TI The arabidopsis homolog of yeast TAP42 and mammalian alpha 4
binds to the catalytic subunit of protein phosphatase
2A and is induced by chilling.

L19 ANSWER 3 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Interaction of maize (Zea mays) protein phosphatase 2A with tubulin.

L19 ANSWER 4 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Characterisation of two protein phosphatase 2A holoenzymes from maize
seedlings.

L19 ANSWER 5 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Characterization of the promoter region and expression pattern of three
Arabidopsis protein phosphatase type 2A subunit genes.

L19 ANSWER 6 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Molecular characterization of catalytic-subunit cDNA sequences encoding
protein phosphatases 1 and 2A and study of their roles in the
gibberellin-dependent Osamy-c expression in rice.

L19 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Protein phosphatase 2A-alpha involvement in granulocytic differentiation
of HL-60 cells.

L19 ANSWER 8 OF 8 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
TI High complexity in the expression of the B' subunit of protein
phosphatase 2A(o). Evidence for the existence of at least seven novel
isoforms

=> d 119 1-8 bib

L19 ANSWER 1 OF 8 MEDLINE on STN
AN 93101627 MEDLINE
DN PubMed ID: 1334551
TI Cantharidin-binding protein: identification as protein phosphatase 2A.
AU Li Y M; Casida J E
CS Department of Entomological Sciences, University of California, Berkeley
94720.
NC ES00049 (NIEHS)
SO Proceedings of the National Academy of Sciences of the United States of
America, (1992 Dec 15) 89 (24) 11867-70.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS PIR-A34541; PIR-B37135
EM 199301
ED Entered STN: 19930205
Last Updated on STN: 19970203
Entered Medline: 19930119

L19 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
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(2006) on STN

AN 2000:40650 AGRICOLA
DN IND22041271
TI The arabidopsis homolog of yeast TAP42 and mammalian alpha 4
binds to the catalytic subunit of protein phosphatase
2A and is induced by chilling.
AU Harris, D.M.; Myrick, T.L.; Rundle, S.J.
AV DNAL (450 P692)
SO Plant physiology, Oct 1999. Vol. 121, No. 2. p. 609-617
CODEN: PLPHAY; ISSN: 0032-0889
NTE Includes references
CY Maryland; United States
DT Article; Conference
FS Other US
LA English

L19 ANSWER 3 OF 8 CABA COPYRIGHT 2006 CABI on STN
AN 2003:140060 CABA
DN 20033104611
TI Interaction of maize (Zea mays) protein phosphatase 2A with tubulin
AU Awotunde, O. S.; Lechward, K.; Krajewska, K.; Zolnierowicz, S.;
Muszyn[acute]ska, G.
CS Institute of Biochemistry and Biophysics, Polish Academy of Sciences,
Warszawa, Poland. muszynsk@ibb.waw.pl
SO Acta Biochimica Polonica, (2003) Vol. 50, No. 1, pp. 131-138.
Publisher: Polskie Towarzystwo Biochemiczne. Warsaw
ISSN: 0001-527X
CY Poland
DT Journal
LA English
ED Entered STN: 20030916
Last Updated on STN: 20030916

L19 ANSWER 4 OF 8 CABA COPYRIGHT 2006 CABI on STN
AN 2002:122080 CABA
DN 20013166076
TI Characterisation of two protein phosphatase 2A holoenzymes from maize seedlings
AU Awotunde, O. S.; Sugajska, E.; Zolnierowicz, S.; Muszyn[acute]ska, G.
CS Institute of Biochemistry and Biophysics, Polish Academy of Sciences, 5a Pawinskiego St., 02-106 Warsaw, Poland. muszynsk@ibbrain.ibb.waw.pl
SO Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology, (2000) Vol. 1480, No. 1/2, pp. 65-76. 56 ref.
Publisher: Elsevier Science Publishers B.V, Biomedical Division. Amsterdam
ISSN: 0167-4838
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20020802
Last Updated on STN: 20020802

L19 ANSWER 5 OF 8 CABA COPYRIGHT 2006 CABI on STN
AN 1999:163124 CABA
DN 19991612261
TI Characterization of the promoter region and expression pattern of three Arabidopsis protein phosphatase type 2A subunit genes
AU Thakore, C. U.; Livengood, A. J.; Hendershot, J. D., III; Corum, J. W.; LaTorre, K. A.; Rundle, S. J.
CS Department of Biology, Western Carolina University, Cullowhee, NC 28723, USA.
SO Plant Science (Limerick), (1999) Vol. 147, No. 2, pp. 165-176. 51 ref.
ISSN: 0168-9452
DT Journal
LA English
ED Entered STN: 19991208
Last Updated on STN: 19991208

L19 ANSWER 6 OF 8 CABA COPYRIGHT 2006 CABI on STN
AN 1999:49220 CABA
DN 19991603221
TI Molecular characterization of catalytic-subunit cDNA sequences encoding protein phosphatases 1 and 2A and study of their roles in the gibberellin-dependent Osamy-c expression in rice
AU Chang MenChi; Wang BaiYang; Chen XiongFong; Wu; Chang, M. C.; Wang, B. Y.; Chen, X. F.; Wu, R.
CS Department of Plant Biology, Cornell University, Ithaca, NY 14853, USA.
SO Plant Molecular Biology, (1999) Vol. 39, No. 1, pp. 105-115. 39 ref.
ISSN: 0167-4412
DT Journal
LA English
ED Entered STN: 19990414
Last Updated on STN: 19990414

L19 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 1993:390274 BIOSIS
DN PREV199396065574
TI Protein phosphatase 2A-alpha involvement in granulocytic differentiation of HL-60 cells.
AU Sasaki, Kazunori [Reprint author]; Ikeda, Kazuma; Nagai, Masami; Shima, Hiroshi; Nagao, Minako; Takahara, Jiro; Irino, Shozo
CS First Dep. Internal Med., Kagawa Med. Sch., 1750-1 Miki-cho, Kita-gun, Kagawa 761-07, Japan
SO Hematological Oncology, (1993) Vol. 11, No. 1, pp. 1-5.
CODEN: HAONDL. ISSN: 0278-0232.
DT Article
LA English
ED Entered STN: 23 Aug 1993
Last Updated on STN: 3 Jan 1995

L19 ANSWER 8 OF 8 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1996:26047866 BIOTECHNO
TI High complexity in the expression of the B' subunit of protein

AU phosphatase 2A(o). Evidence for the existence of at least seven novel isoforms
AU Csortos C.; Zolnierowicz S.; Bako E.; Durbin S.D.; DePaoli-Roach A.A.
CS Biochemistry/Molec. Biology Dept., Indiana Univ. School of Medicine, 635
SO Barnhill Dr., Indianapolis, IN 46202-5122, United States.
Journal of Biological Chemistry, (1996), 271/5 (2578-2588)
CODEN: JBCHA3 ISSN: 0021-9258
DT Journal; Article
CY United States
LA English
SL English

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L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU
L4 13011 S (CHEN, R? OR CHEN R?)/AU
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
L6 4 S L1 AND L2 AND L3 AND L4 AND L5
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5
L9 14484 S L8 NOT L6
L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE
L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE
L12 0 S L9 AND L11
L13 12 S L11 NOT L6
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)
L15 248 S 2A(W) PHOSPHATASE
L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE
L17 16 S L16 AND (PLANT OR PLANTS)
L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)
L19 8 S L18 NOT L8

=> s l15 not l16

L20 241 L15 NOT L16

=> s l20 and (plant or plants)

L21 21 L20 AND (PLANT OR PLANTS)

=> s l21 not l6

L22 21 L21 NOT L6

=> duplicate remove l22

DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L22

L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

=> d l23 1-14 ti

L23 ANSWER 1 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI The yeast phosphotyrosyl phosphatase activator is part of the
tap42-phosphatase complexes.

L23 ANSWER 2 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Specific interactions of PP2A and PP2A-like phosphatases with the yeast
PTPA homologues, Ypa1 and Ypa2.

L23 ANSWER 3 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Interaction with Tap42 is required for the essential function of Sit4 and
type 2A phosphatases.

L23 ANSWER 4 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI HTLV-1 onco-protein Tax inhibits cell growth and perturbs spindle check point in *Saccharomyces cerevisiae*.

L23 ANSWER 5 OF 14 MEDLINE on STN DUPLICATE 1
TI The *Arabidopsis thaliana* PPX/PP4 phosphatases: molecular cloning and structural organization of the genes and immunolocalization of the proteins to plastids.

L23 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 2
TI The *Arabidopsis* homolog of yeast TAP42 and mammalian alpha4 binds to the catalytic subunit of protein phosphatase 2A and is induced by chilling.

L23 ANSWER 7 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI The TOR nutrient signalling pathway phosphorylates NPR1 and inhibits turnover of the tryptophan permease.

L23 ANSWER 8 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI *Saccharomyces cerevisiae* homologs of mammalian B and B' subunits of protein phosphatase 2A direct the enzyme to distinct cellular functions.

L23 ANSWER 9 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Nutrients, via the Tor proteins, stimulate the association of Tap42 with type 2A phosphatases.

L23 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
TI Characterization of DNA sequences encoding a novel isoform of the 55 kDa B regulatory subunit of the type 2A protein serine/threonine phosphatase of *Arabidopsis thaliana*

L23 ANSWER 11 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI The role of *Saccharomyces cerevisiae* type 2A phosphate in the actin cytoskeleton and in entry into mitosis.

L23 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
TI Phosphoprotein phosphatase genes of *Arabidopsis thaliana*

L23 ANSWER 13 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI TANSLEY REVIEW NO. 37 CIRCADIAN RHYTHMS THEIR ORIGIN AND CONTROL.

L23 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 3
TI Identification of high levels of type 1 and type 2A protein phosphatases in higher plants.

=> d 123 6,10,12,13,14 bib

L23 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 2
AN 1999447965 MEDLINE
DN PubMed ID: 10517853
TI The *Arabidopsis* homolog of yeast TAP42 and mammalian alpha4 binds to the catalytic subunit of protein phosphatase 2A and is induced by chilling.
AU Harris D M; Myrick T L; Rundle S J
CS Department of Biology, Western Carolina University, Cullowhee, North Carolina 28723, USA.
SO Plant physiology, (1999 Oct) 121 (2) 609-17.
Journal code: 0401224. ISSN: 0032-0889.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199911
ED Entered STN: 20000113
Last Updated on STN: 20000113
Entered Medline: 19991126

L23 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:515691 CAPLUS

DN 125:187118
TI Characterization of DNA sequences encoding a novel isoform of the 55 kDa B regulatory subunit of the type 2A protein serine/threonine phosphatase of *Arabidopsis thaliana*
AU Corum, John W., III; Hartung, Andrew J.; Stamey, Robin T.; Rundle, Sabine J.
CS Dep. Biology, Western Carolina Univ., Cullowhee, NC, 28723, USA
SO Plant Molecular Biology (1996), 31(2), 419-427
CODEN: PMBIDB; ISSN: 0167-4412
PB Kluwer
DT Journal
LA English

L23 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:184375 CAPLUS
DN 120:184375
TI Phosphoprotein phosphatase genes of *Arabidopsis thaliana*
AU Aoki, Miki; Oka, Atsuhiko
CS Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan
SO Bulletin of the Institute for Chemical Research, Kyoto University (1993), 71(3), 295-307
CODEN: BICRAS; ISSN: 0023-6071
DT Journal
LA English

L23 ANSWER 13 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 1992:459628 BIOSIS
DN PREV199294101028; BA94:101028
TI TANSLEY REVIEW NO. 37 CIRCADIAN RHYTHMS THEIR ORIGIN AND CONTROL.
AU WILKINS M B [Reprint author]
CS DEP BOTANY, GLASGOW UNIVERSITY, GLASGOW G12 8QQ, UK
SO New Phytologist, (1992) Vol. 121, No. 3, pp. 347-375.
CODEN: NEPHAV. ISSN: 0028-646X.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 7 Oct 1992
Last Updated on STN: 8 Oct 1992

L23 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 3
AN 90056434 MEDLINE
DN PubMed ID: 2554892
TI Identification of high levels of type 1 and type 2A protein phosphatases in higher plants.
AU MacKintosh C; Cohen P
CS Department of Biochemistry, University of Dundee, Scotland, U.K.
SO Biochemical journal, (1989 Aug 15) 262 (1) 335-9.
Journal code: 2984726R. ISSN: 0264-6021.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198912
ED Entered STN: 19900328
Last Updated on STN: 19970203
Entered Medline: 19891207

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

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L2 1107 S (BOHNERT, H? OR Bohnert H?)/AU
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU
L4 13011 S (CHEN, R? OR CHEN R?)/AU

L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
 L6 4 S L1 AND L2 AND L3 AND L4 AND L5
 L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)
 L8 14488 S L1 OR L2 OR L3 OR L4 OR L5
 L9 14484 S L8 NOT L6
 L10 0 S PHYSCOMITRELLA (S) 2A (S) PHOSPHATASE
 L11 13 S PHYSCOMITRELLA (S) PHOSPHATASE
 L12 0 S L9 AND L11
 L13 12 S L11 NOT L6
 L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)
 L15 248 S 2A (W) PHOSPHATASE
 L16 272 S 2A (S) ALPHA (S) CATALYTIC (S) PHOSPHATASE
 L17 16 S L16 AND (PLANT OR PLANTS)
 L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)
 L19 8 S L18 NOT L8
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 L21 21 S L20 AND (PLANT OR PLANTS)
 L22 21 S L21 NOT L6
 L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

=> file uspatfull
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 FULL ESTIMATED COST 82.61 82.82

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006
 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 26 Jan 2006 (20060126/PD)
 FILE LAST UPDATED: 26 Jan 2006 (20060126/ED)
 HIGHEST GRANTED PATENT NUMBER: US6990685
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006021102
 CA INDEXING IS CURRENT THROUGH 26 Jan 2006 (20060126/UPCA)
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 26 Jan 2006 (20060126/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

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=> d 129 bib

L29 ANSWER 1 OF 1 USPATFULL on STN
AN 2002:274368 USPATFULL
TI Phosphatase stress-related proteins and methods of use in plants
IN da Costa e Silva, Oswaldo, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, AZ, UNITED STATES
van Thielen, Nocha, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES
Ishitani, Manabu, Cary, NC, UNITED STATES
PI US 2002152502 A1 20021017
US 6818805 B2 20041116
AI US 2001-828302 A1 20010406 (9)
PRAI US 2000-196001P 20000407 (60)
DT Utility
FS APPLICATION
LREP SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA,
30309-3996
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN 31 Drawing Page(s)
LN.CNT 3639
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 11 or 12 or 13 or 14 or 15
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15 ISHITANI M?/AU
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(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
14:45:48 ON 30 JAN 2006

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L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU
L4 13011 S (CHEN, R? OR CHEN R?)/AU
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
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L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5
L9 14484 S L8 NOT L6
L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE
L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE
L12 0 S L9 AND L11
L13 12 S L11 NOT L6
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)
L15 248 S 2A(W) PHOSPHATASE
L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE
L17 16 S L16 AND (PLANT OR PLANTS)
L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)

L19 8 S L18 NOT L8
L20 241 S L15 NOT L16
L21 21 S L20 AND (PLANT OR PLANTS)
L22 21 S L21 NOT L6
L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006

L24 4 S L1
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L26 5 S L3
L27 575 S L4
L28 15 S L5
L29 1 S L1 AND L2 AND L3 AND L4 AND L5
L30 590 S L1 OR L2 OR L3 OR L4 OR L5

=> s 111
114 PHYSCOMITRELLA
53526 PHOSPHATASE
L31 4 PHYSCOMITRELLA(S) PHOSPHATASE

=> s 130 and 131
L32 4 L30 AND L31

=> d 132 1-4 ti

L32 ANSWER 1 OF 4 USPATFULL on STN
TI Phosphatase stress-related proteins and methods of use in plants
L32 ANSWER 2 OF 4 USPATFULL on STN
TI Pyrophosphatase stress-related proteins and methods of use in plants
L32 ANSWER 3 OF 4 USPATFULL on STN
TI Protein phosphatase stress-related polypeptides and methods of use in plants
L32 ANSWER 4 OF 4 USPATFULL on STN
TI Phosphatase stress-related proteins and methods of use in plants

=> d 132 1,3,4 bib

L32 ANSWER 1 OF 4 USPATFULL on STN
AN 2004:191882 USPATFULL
TI Phosphatase stress-related proteins and methods of use in plants
IN Silva, Oswaldo da Costa e, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, AZ, UNITED STATES
Thielen, Nocha van, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES
Ishitani, Manabu, Cary, NC, UNITED STATES
PI US 2004148658 A1 20040729
AI US 2004-764259 A1 20040123 (10)
RLI Division of Ser. No. US 2001-828302, filed on 6 Apr 2001, PENDING
PRAI US 2000-196001P 20000407 (60)
DT Utility
FS APPLICATION
LREP Kathryn H. Wade, Ph.D., SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 3858
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L32 ANSWER 3 OF 4 USPATFULL on STN
AN 2003:215383 USPATFULL
TI Protein phosphatase stress-related polypeptides and methods of use in plants
IN Bohnert, Hans J., Champaign, IL, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES

Ishitani, Manabu, Cary, NC, UNITED STATES
Thielen, Nocha Van, Chapel Hill, NC, UNITED STATES
Silva, Oswaldo da Costa e, Cary, NC, UNITED STATES
PI US 2003150028 A1 20030807
AI US 2002-236699 A1 20020905 (10)
PRAI US 2001-317305P 20010905 (60)
DT Utility
FS APPLICATION
LREP Lisa M. Cobern, Esq., SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
CLMN Number of Claims: 71
ECL Exemplary Claim: 1
DRWN 9 Drawing Page(s)
LN.CNT 3412
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L32 ANSWER 4 OF 4 USPATFULL on STN
AN 2002:274368 USPATFULL
TI Phosphatase stress-related proteins and methods of use in plants
IN da Costa e Silva, Oswaldo, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, AZ, UNITED STATES
van Thielen, Nocha, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES
Ishitani, Manabu, Cary, NC, UNITED STATES
PI US 2002152502 A1 20021017
US 6818805 B2 20041116
AI US 2001-828302 A1 20010406 (9)
PRAI US 2000-196001P 20000407 (60)
DT Utility
FS APPLICATION
LREP SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN 31 Drawing Page(s)
LN.CNT 3639
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU
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L4 13011 S (CHEN, R? OR CHEN R?)/AU
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU
L6 4 S L1 AND L2 AND L3 AND L4 AND L5
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L8 14488 S L1 OR L2 OR L3 OR L4 OR L5
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L12 0 S L9 AND L11
L13 12 S L11 NOT L6
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L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE
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L19 8 S L18 NOT L8
L20 241 S L15 NOT L16
L21 21 S L20 AND (PLANT OR PLANTS)
L22 21 S L21 NOT L6
L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006

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L27 575 S L4
L28 15 S L5
L29 1 S L1 AND L2 AND L3 AND L4 AND L5
L30 590 S L1 OR L2 OR L3 OR L4 OR L5
L31 4 S L11
L32 4 S L30 AND L31

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
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